

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A mold apparatus for forming a shaped laminate in one step, said laminate comprising a cladding layer and a foam backing layer, said foam backing layer having a perimeter and an edge at said perimeter, said shaped laminate formed in said apparatus, said apparatus comprising:

- a) a male steam chest mold half matable to a female steam chest mold half which open and close with respect to one another to define a mold cavity;
- b) an inlet mounted on said mold apparatus for introducing nonliquid foamed materials into the mold cavity said inlet of a configuration capable of introducing only solid, partially expanded resin;
- c) a plurality of edge folding members carried by one of said mold halves, movable from a retracted position to an extended position, said edge folding members adapted to fold said cladding layer over at least part of said edge of said foam backing layer;
- d) a plurality of trim blades, located adjacent said edge folding members inwardly of said cavity, each of said trim blades being sequentially movable by one of a plurality of trim blade actuators, from a retracted position adjacent the cavity to an extended position engaging the other mold half to sever the cladding layer to define the finished shape of the laminate, and back to the retracted position; and

e) at least one driver for opening and closing the mold halves and for moving said edge folding members from the retracted position to the extended position.

Claim 2 (original). The mold apparatus of claim 1, wherein each of said plurality of trim blades is movably mounted on one of said plurality of edge folding members.

Claim 3 (original). The mold apparatus of claim 1, wherein each of said plurality of edge folding members is inwardly movable by an edge folding member actuator.

Claim 4 (original). The mold apparatus of claim 3, wherein the edge folding member actuators are hydraulically, or pneumatically operated.

Claim 5 (previously presented). The mold apparatus of claim 1, wherein each of said plurality of edge folding members is inwardly movable by a camming action of a camming surface on each of a plurality of heel blocks located on one of said mold halves, against a camming surface on each of said plurality of corresponding edge folding members on another of said mold halves, whereby the movement of each of said plurality of edge folding members caused by the camming action causes the folding of the cladding layer over the foam backing layer.

Claim 6 (cancelled).

Claim 7 (original). The mold apparatus of claim 5, wherein each edge folding member is slidably mounted on one of said mold halves, such that closing of said mold halves with respect to one another causes said camming surfaces on said heel blocks and said camming surfaces on said edge folding members to engage to move the edge folding members upon mold closure.

Claim 8 (previously presented). The mold apparatus of claim 5, wherein each of said plurality of heel blocks is located on said male mold half whereby movement of said male mold half into said female mold half causes said camming action to move said edgefold slide an edgefold slide inwardly to fold the cladding layer over the foam backing layer.

Claims 9 - 13 (cancelled).

Claim 14 (original). The mold apparatus of claim 1, wherein each of said at least one driver is a mechanical, pneumatic, or hydraulic actuator.

Claims 15 - 18 (cancelled).

Claim 19 (original). The mold apparatus of claim 1, wherein the male mold half and the female mold half are oriented with their openings substantially in a vertical plane.

Claim 20 (original). The mold apparatus of claim 1, wherein the male mold half and the female mold half are oriented with their openings substantially in a horizontal plane.

Claim 21 (previously presented). The mold apparatus of claim 1, including an apparatus to partially close the male and female mold halves with respect to one another, an apparatus to fill said cavity with expanded bead material as the foamable materials and an apparatus to subsequently finish the closing motion to further crush and densify the foamable material aiding to fuse and homogeneous fill said mold cavity.

Claim 22 (previously presented). The mold apparatus of claim 1, wherein each of said plurality of trim blades are matable against a cutting surface.

Claim 23 (original). The mold apparatus of claim 22, wherein said cutting surface is constructed of a heat resistant resin or metal.

Claim 24 (original). The mold apparatus of claim 22, wherein said cutting surface is selected from the group consisting essentially of polypropylene, nylon, polyurethane, aluminum, and stainless steel.

Claim 25 (original). The mold apparatus of claim 1, wherein said plurality of trim blades includes at least four trim blades carried by one of said mold halves.

Claim 26 (original). The mold apparatus of claim 1, wherein said at least one driver includes a hydraulic cylinder for opening and closing the mold halves and a plurality of hydraulic cylinders for moving the trim blades.

Claim 27 (cancelled).

Claim 28 (previously presented). The molding apparatus of claim 1, wherein said molding apparatus includes retainers to receive a cladding layer that fully covers a surface of said foam backing layer.

Claim 29 (previously presented). The molding apparatus of claim 1, wherein said molding apparatus includes retainers to receive a cladding layer that partially covers a surface of said foam backing layer, thereby leaving a portion of said backing layer uncovered by said cladding layer.

Claims 30-45 (cancelled).